IN THE CLAIMS:

1. (Currently Amended) An apparatus for clamping a reference surface of an object to a reference surface of a support member, comprising:

at least one clamping member having means for applying compressive force between a first contact surface and a second contact surface, said first contact surface being in contact with a support surface of said support member, said support surface of said support member being opposite said reference surface of said support member;

each of said clamping members having a base member with said second contact surface in contact with a support surface of said object, said support surface of said object being opposite said reference surface of said object;

each of said clamping members having a tension member <u>passing through holes in said</u> support member and said object for applying tension force to said base member and for <u>supporting said object when said force is released</u>, said tension member being adapted to maintain a tensile force and having a cross section <u>adapted</u> such that said tension member exerts transverse force on said object less than a threshold amount <u>in response to transverse</u> <u>displacements of said clamping member such that the deviation from an adjusted position is within a relevant error budget</u>.

- 2. (Currently Amended) An apparatus according to claim 1, in which said means for applying compressive force is a spring and said first contact surface is a surface of said spring.
- 3. (Original) An apparatus according to claim 1, further comprising release means for releasing compressive force.
- 4. (Original) An apparatus according to claim 3, in which said release means comprises a lever pressing against said means for applying compressive force.
- 5. (Original) An apparatus according to claim 1, in which support means support the object when the compressive force is released.
- 6. (Original) An apparatus according to claim 2, in which support means support the object when the compressive force is released.
- 7. (Original) An apparatus according to claim 1, in which said tension member is a shaft having a broader diameter at the top and bottom and a smaller diameter in a central area.
- 8. (Original) An apparatus according to claim 2, in which said tension member is a shaft having a broader diameter at the top and bottom and a smaller diameter in a central area.

- 9. (Original) An apparatus according to claim 3, in which said tension member is a shaft having a broader diameter at the top and bottom and a smaller diameter in a central area.
- 10. (Original) An apparatus according to claim 4, in which said tension member is a shaft having a broader diameter at the top and bottom and a smaller diameter in a central area.
- 11. (Currently Amended) An apparatus for clamping a reference surface of an object to a reference surface of a support member in a vacuum, comprising:

at least one clamping member having means for applying compressive force between a first contact surface and a second contact surface, said first contact surface being in contact with a support surface of said support member, said support surface of said support member being opposite said reference surface of said support member;

each of said clamping members having a base member with said second contact surface in contact with a support surface of said object, said support surface of said object being opposite said reference surface of said object, such that said base member supports said object when clamped;

each of said clamping members having a tension member <u>passing through holes in said</u> support member and said object for applying tension force to said base member <u>and for supporting said object when said force is released</u>, said tension member being adapted to maintain a tensile force and having a cross section <u>adapted</u> such that said tension member

exerts transverse force on said object less than a threshold amount <u>in response to transverse</u>

<u>displacements of said clamping member such that the deviation from an adjusted position</u>

is within a relevant error budget;

release means for releasing tension in said tension member, whereby said base member moves away from said support member, thereby opening a gap between said object and said support member; and

an actuator passing through a vacuum wall into said vacuum connected to said clamping member for applying and releasing force to said clamping member.

- 12. (Currently Amended) An apparatus according to claim 11, in which said means for applying compressive force is a spring and said first contact surface is a surface of said spring.
- 13. (Original) An apparatus according to claim 11, further comprising release means for releasing compressive force.
- 14. (Original) An apparatus according to claim 13, in which said release means comprises a lever pressing against said means for applying compressive force.
- 15. (Original) An apparatus according to claim 11, in which support means supports the object when the compressive force is released.

- 16. (Original) An apparatus according to claim 12, in which support means supports the object when the compressive force is released.
- 17. (Original) An apparatus according to claim 11, in which said tension member is a shaft having a broader diameter at the top and bottom and a smaller diameter in a central area.
- 18. (Original) An apparatus according to claim 12, in which said tension member is a shaft having a broader diameter at the top and bottom and a smaller diameter in a central area.
- 19. (Original) An apparatus according to claim 13, in which said tension member is a shaft having a broader diameter at the top and bottom and a smaller diameter in a central area.
- 20. (Original) An apparatus according to claim 14, in which said tension member is a shaft having a broader diameter at the top and bottom and a smaller diameter in a central area.